

EMERGENCY ACTION PLAN

HANSON CREEK DAM

City of Lewistown
305 West Watson
Lewistown, Montana 59457

June 1995

Revised: June, 2008

If Hanson Creek Dam is failing or failure seems imminent, call:

Fergus County Sheriff 535-3415 or 911
Fergus County Disaster and Emergency Services..... 535-8118
Leo Kapp Office: 535-1770
..... Cell: 366-4430

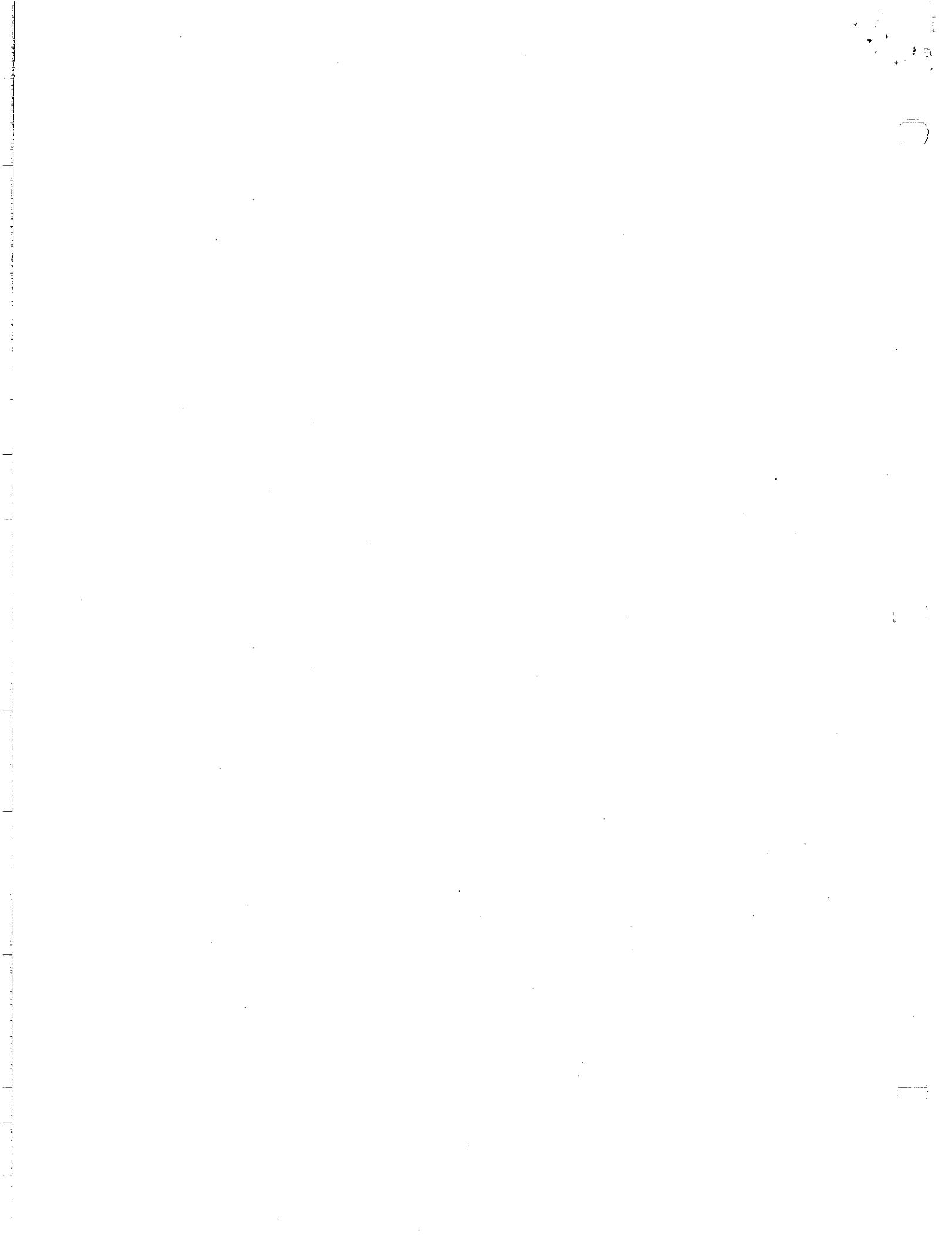


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I. INTRODUCTION

A. Purpose

The purpose of this emergency action plan (EAP) is primarily to safeguard lives and secondarily to reduce property damage to the citizens of Fergus County living near the town of Lewistown, and along Big Spring Creek, in the event of flooding caused by a failure of Hanson Creek Dam.

B. Description of Dam

Hanson Creek Dam is in Fergus County, in Sections 5 and 8, Township 14 North (T14N), Range 19 East (R19E), and located on Hanson Creek, a tributary of Big Spring Creek. It is owned by the City of Lewistown, 305 West Watson Street, Lewistown, MT 59457, (406) 535-1760. Hanson Creek Dam is used for flood control, sedimentation and recreation purposes. Technical data pertaining to Hanson Creek Dam and its structures are shown in Appendix A.

C. Access to Dam

Hanson Creek Dam is located off of a county road, about 7 miles southeast of Lewistown. Note that the county road may become flooded! Alternate access may be obtained over land by all terrain vehicle (ATV), snowmobile, or from the air by helicopter. The nearest telephone is at the Montana State Fish Hatchery (406) 538-5558, about ½ mile below the dam.

D. Hazard Area

The evacuation area is shown in Appendix B. Hazards include the possible inundation of occupied dwellings and roads. Inundation and evacuation maps are in Appendix B.

E. Responsibility and Authority

Pursuant to the Dam Safety Act, Chapter 15 of Title 85, MCA, the dam owner is responsible for production, coordination, maintenance, and implementation of this emergency action plan. The extent of owner implementation was defined through coordination of this plan with the County Sheriff and Disaster and Emergency Services (DES) coordinator.

F. Periodic Review/Update

The owner shall review/update this EAP annually. Review/update by a qualified professional engineer will be accomplished as required by the dam's operating permit, but no less than every five years.

G. Approval

By my signature, I acknowledge that I, or my representative, have reviewed this plan and agree to the tasks and responsibilities assigned herein for my department and/or agency.

J. C. Kapp Signature Date 11/08/08
OWNER, CITY OF LEWISTOWN

Howard L. Kapp Signature Date 11 Aug 08
FERGUS COUNTY SHERIFF'S DEPARTMENT

Chew Kibb Signature Date Aug 11, 08
FERGUS COUNTY
DISASTER AND EMERGENCY SERVICES COORDINATOR

II. NOTIFICATION PROCEDURES

A. Imminent or Actual Failure

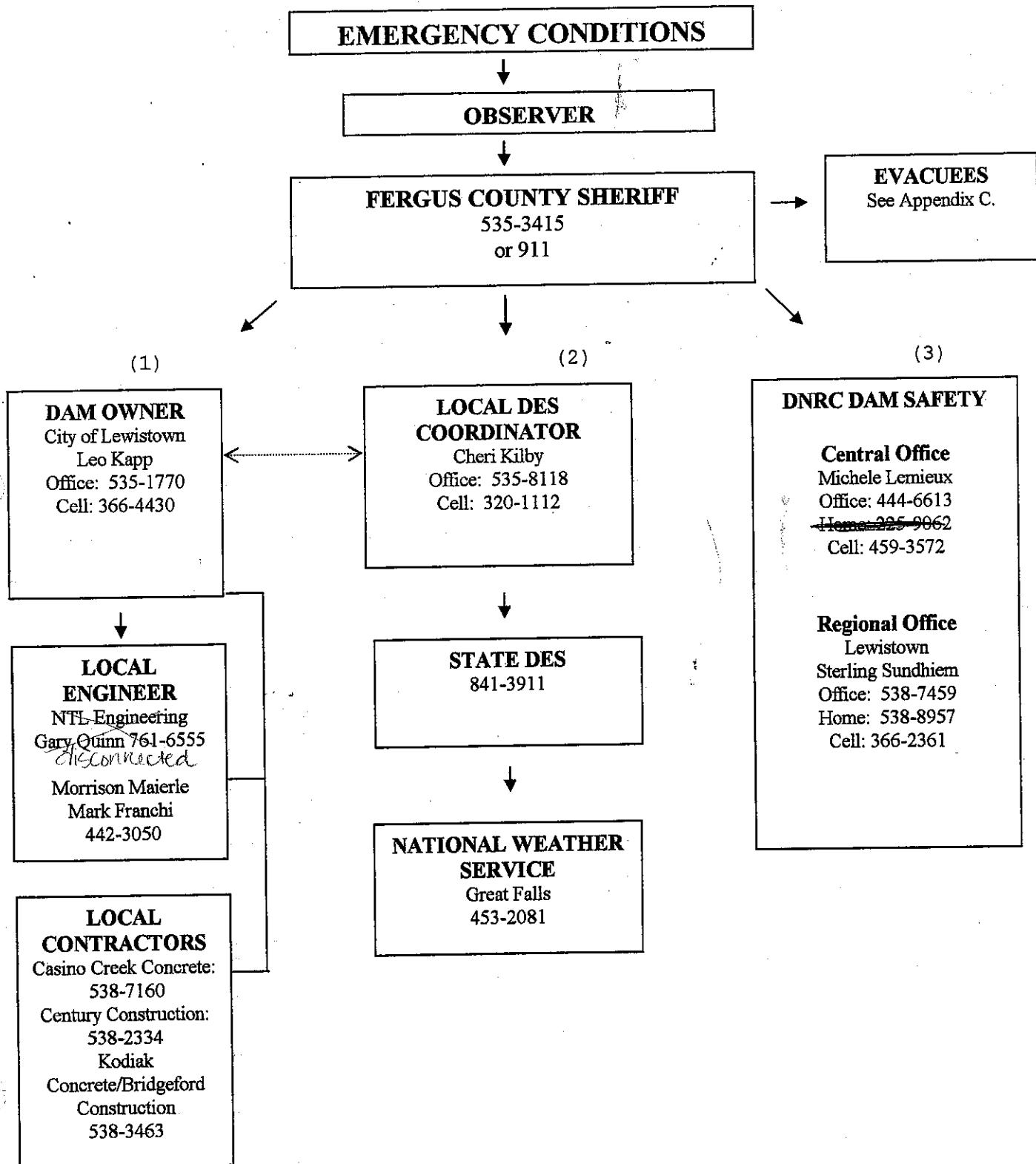
If HANSON CREEK DAM IS FAILING, TWO THINGS MUST BE DONE IMMEDIATELY:

- (1) Residents in the hazard area downstream from the dam must be warned according to the county warning plan, and initiated as shown in Figure 1, and
- (2) any steps that might save the dam or reduce damage to the dam or hazard area downstream should be taken. (Refer to the map in Appendix B to determine the areas that are likely to be inundated if the dam fails).

As dam owner, it is your responsibility to:

1. Call the Sheriff's Dispatch Center (535-3415 or 911) and Disaster and Emergency Services (535-8118). Be sure to say, "This is an emergency." They will call other authorities and the media and begin the warning plan.
2. Warn anyone in immediate danger to evacuate to safety. This includes someone on the dam, directly below the dam, boating on the reservoir, or downstream evacuees, if so directed by the sheriff.
3. Contact the Disaster and Emergency Services staff at least once every hour. They may request your assistance in evacuating residents.
4. If all means of communication are lost:
 - a. Try to find out why
 - b. Get someone else to try to reestablish communications. If these means fail, take care of immediate problems and send someone to get to another radio or telephone that works.

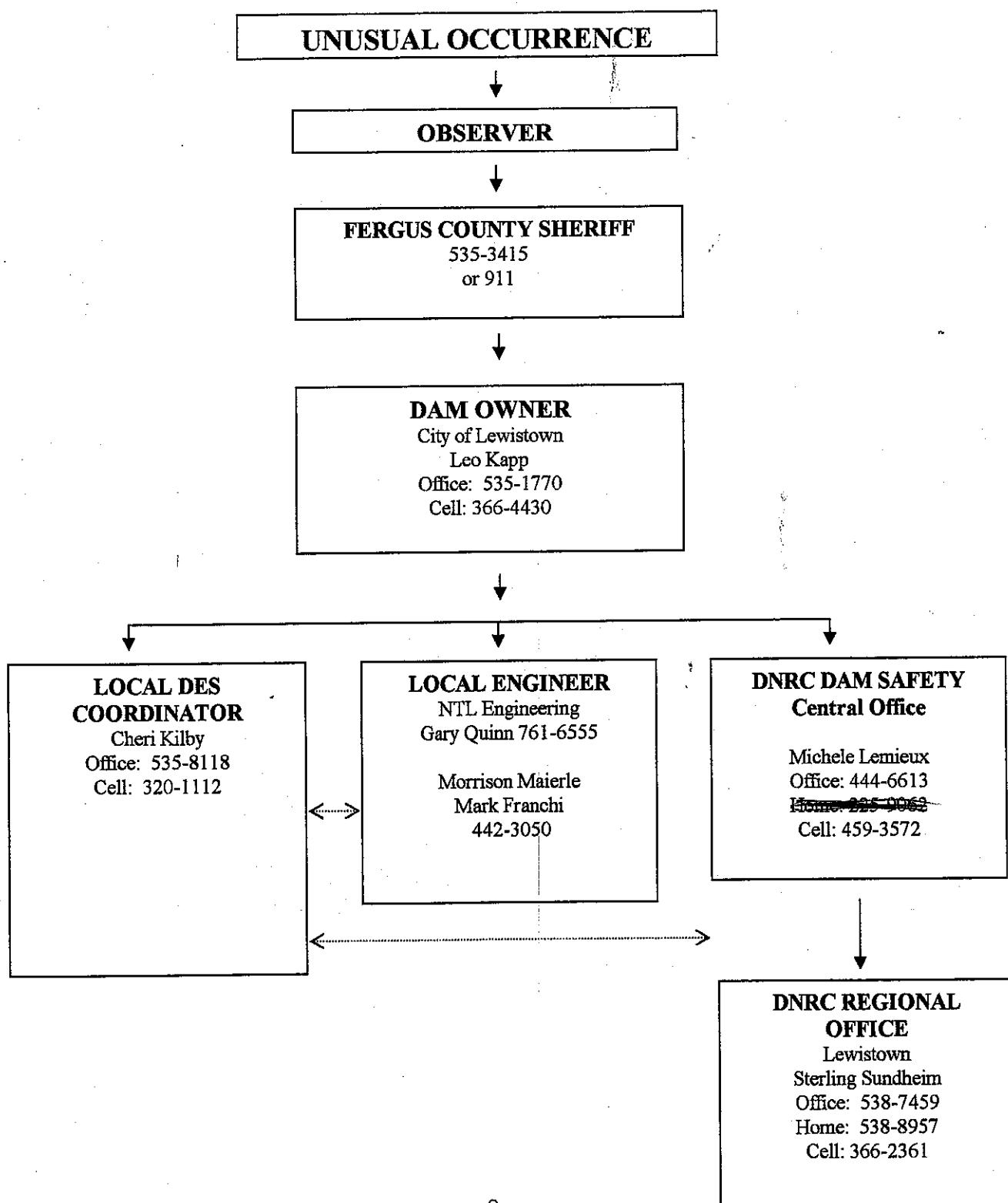
FIGURE 1
HANSON CREEK DAM
ACTUAL OR IMMINENT FAILURE
"NOTIFICATION FLOW CHART"



B. Potentially Hazardous Situation

A potentially hazardous situation is an event or condition not normally encountered in the routine operation of the dam and reservoir. Among the unusual occurrences that may affect the dam are dam embankment problems (see section B.2.), failure of the spillway or outlet works, heavy precipitation or rapid spring snow melt, landslides, earthquakes, erosion, theft, vandalism, acts of sabotage, and serious accidents. These occurrences may endanger the dam, the public, or the downstream valley and may necessitate a temporary or permanent revision of the dam's operating procedures. Help in these situations can be obtained by notifying those people shown in Figure 2.

FIGURE 2
HANSON CREEK DAM
POTENTIALLY HAZARDOUS SITUATION
"NOTIFICATION FLOW CHART"



1. If the dam owner discovers an unusual condition of the dam embankment that could threaten the structure:

- a. Complete the Dam Incident Report Form in Appendix D.
- b. Have a qualified engineer inspect the dam as soon as possible to determine whether emergency action is necessary.
- c. Notify the county Disaster and Emergency Services Coordinator (535-8118) of the potential problem.
- d. Contact the Dam Safety Program of the Department of Natural Resources and Conservation (DNRC).

2. Among the conditions the dam owner should watch for are:

- a. Overtopping of the dam by floodwaters
- b. Loss of material from the dam crest due to storm wave erosion
- c. Slides on either the upstream or downstream slope of the embankment as evidenced by
 1. Sloughing
 2. Cracking
 3. Bulging
 4. Scarping
- d. Erosional flows through, beneath, or around the embankment as evidenced by
 1. Excessive seepage
 2. Discoloration of the seepage
 3. Boils on the downstream side
 4. Sinkholes
 5. Changes in the flow from drains
- e. Failure of outlets or spillways due to clogging or erosion
- f. Movement of the dam on its foundation as evidenced by
 1. Misalignment
 2. Settlement
 3. Cracking

3. Before calling either an engineer or DNRC to report a problem, the dam owner shall use the form in Appendix D to ensure sufficient information is provided for the engineer to analyze the problems. After talking to the engineer, it may be helpful to document the condition of the dam by making a sketch on the form in Appendix D, showing the extent of the problem. Revise the sketch periodically if the problem develops further. Section III includes further guidelines for courses of action to take mitigate the effect of many problems.

C. Distribution of the EAP.

The Fergus County Sheriff's Office and DES Coordinator have copies of the plan. A complete plan distribution list is in Appendix E.

III. MITIGATION ACTIONS

Besides normal monitoring of the dam's condition, which is done at least monthly, the owner will provide continuous monitoring and inspection during and after extreme events such as storms and earthquakes. Information on the magnitude of an earthquake or storm can be obtained from the DNRC Dam Safety Program. Actions are suggested below to mitigate problems that may develop, but those actions should never be continued at the risk of injury or at the expense of lessening efforts related to evacuation. Monitoring should identify any of the following potential problems.

A. Potential Problems and Immediate Response Actions

- 1. OVERTOPPING BY FLOOD WATERS**
 - a. Open outlet to its maximum safe capacity.
 - b. Place sandbags along the crest to increase freeboard and force more water through the spillway and outlet.
 - c. Provide erosion-resistant protection to the downstream slope by placing plastic sheets or other materials over eroding areas.
 - d. Divert flood waters around the reservoir basin, if possible.
 - e. Create additional spillway capacity by making a controlled breach in a low embankment or dike section where the foundation materials are erosion-resistant.
- 2. LOSS OF FREEBOARD OR DAM CROSS SECTION DUE TO STORM WAVE EROSION**
 - a. Place additional riprap or sandbags in damaged areas to prevent further embankment erosion.
 - b. Lower the water level to an elevation below the damaged area.
- 3. SLIDES IN THE UPSTREAM OR DOWNSTREAM SLOPE OF THE EMBANKMENT**
 - a. Lower the water level at a rate and to an elevation considered safe, given the slope condition. If the outlet is damaged or blocked, pumping, siphoning, or a controlled breach may be required.
 - b. Stabilize slides on the downstream slope by
 1. weighting the toe area with additional soil, rock, or gravel, and then
 2. restoring lost freeboard by placing sandbags at the crest.
- 4. EROSIONAL FLOWS THROUGH THE EMBANKMENT, FOUNDATION, OR ABUTMENTS**
 - a. Plug the flow with whatever material is available (hay bales, bentonite, or plastic sheeting if the entrance to the leak is in the reservoir basin).
 - b. Lower the water level until the flow decreases to a non-erosive velocity or stops.
 - c. Place a protective sand-and-gravel filter or boil ring over the exit

area to hold materials in place.

5. FAILURE OF APPURTENANT STRUCTURES SUCH AS OUTLETS OR SPILLWAYS
 - a. Implement temporary measures to protect the damaged structure, such as closing an outlet or protecting a damaged spillway with riprap.
 - b. Lower the water level to a safe elevation. If the outlet is inoperable, pumping, siphoning, or a controlled breach may be required.
6. MASS MOVEMENT OF THE DAM ON ITS FOUNDATION (SPREADING OR MASS SLIDING FAILURE)
 - a. Immediately lower the water level until excessive movement stops.
7. EXCESSIVE SEEPAGE AND HIGH LEVEL SATURATION OF THE EMBANKMENT
 - a. Lower the water to a safe level.
 - b. Continue frequent monitoring for signs of slides, cracking or concentrated seepage.
8. SPILLWAY BACKCUTTING, THREATENING RESERVOIR EVACUATION
 - a. Reduce the flow over the spillway by fully opening the main outlet.
 - b. Provide temporary protection at the point of erosion by placing sandbags, riprap materials, or plastic sheets weighted with sandbags.
 - c. When the inflow subsides, lower the water to a safe level.
9. EXCESSIVE SETTLEMENT OF THE EMBANKMENT
 - a. Lower the water level by releasing it through the outlet pumping, siphoning, or a controlled breach.
 - b. If necessary, restore freeboard, preferably by placing sandbags.

B. Emergency Supplies and Resources

An emergency borrow area located on the east side of the dam is shown in Figure 3.

C. Local Contractors and Engineers

Local Contractors:

Casino Creek Concrete.....	538-7160
Century Construction.....	538-2334
Kodiak Concrete/Bridgeford Construction	538-3463

Engineers:

NTL Engineering, Gary Quinn.....761-6555 disconnected
Morrison Maierle, Mark Franchi.....442-3050

APPENDICES

APPENDIX A

Technical Data For Hanson Creek Dam

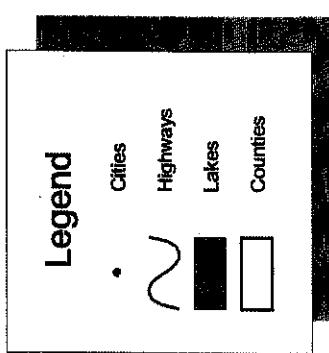
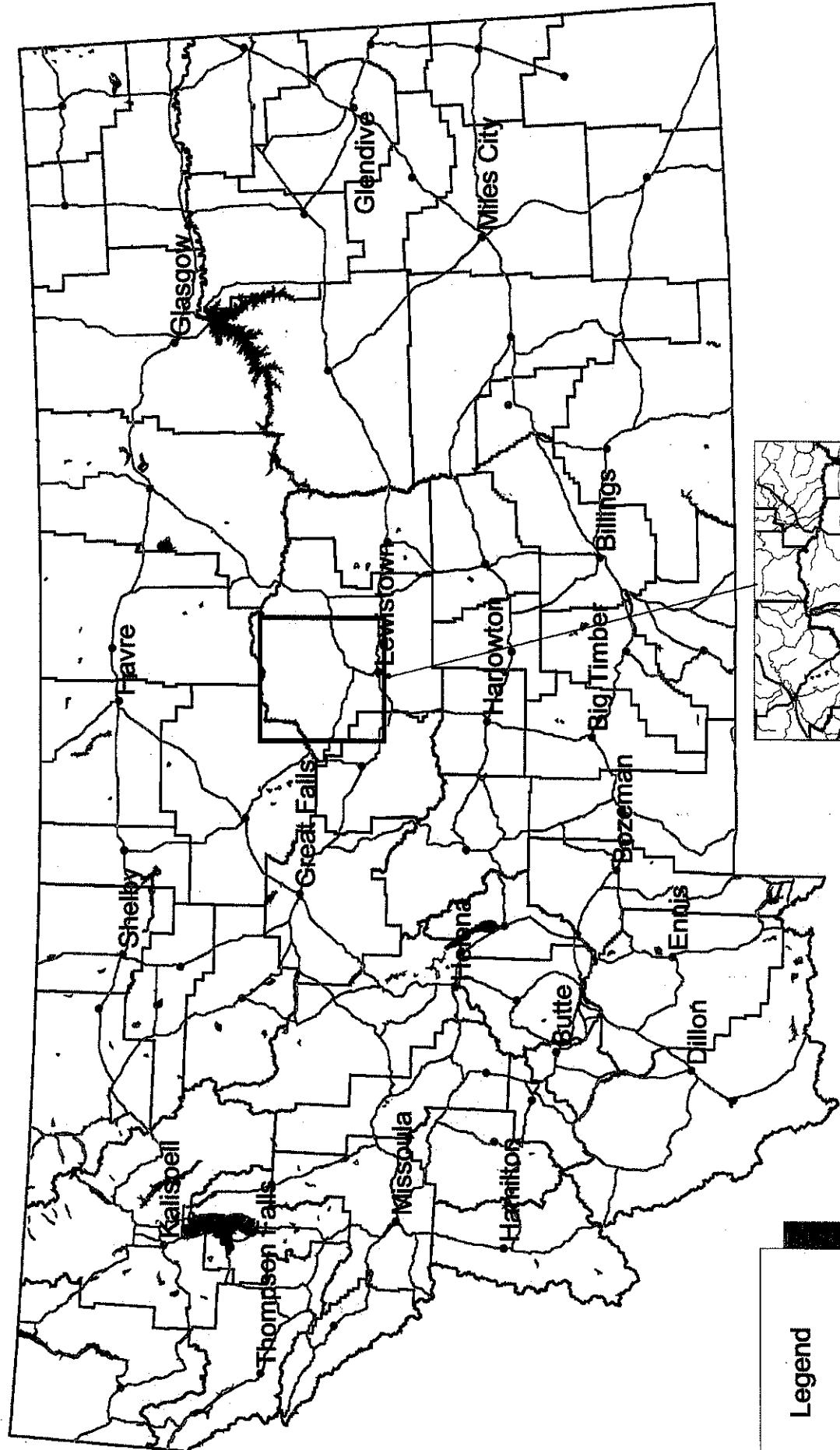
Max Reservoir Capacity to the Crest of the Dam: 860 acre feet
Normal Reservoir Capacity Measured to the Emergency Spillway Crest: 610 acre feet
Dam Height Measured From Streambed to Crest of the Dam: 72.4 feet
Dam Crest Width: 20 feet
Length of Dam Crest: 759 feet
Outlet Capacity: 102 cubic feet per second
Spillway Capacity 14,400 cubic feet per second
Date Constructed March 1974
Slope of Upstream Face of Dam (Horizontal to Vertical)
Upper: 3:1
Lower: 4:1
Slope of Downstream Face of Dam (Horizontal to Vertical): 2:1
Normal Reservoir Capacity measured to the Principle Spillway Crest 180 AF

APPENDIX B

Inundation & Evacuation Maps

Lewistown Dams Overview Map

East Fork Lake, Pike Lake, Hanson Lake, Big Casino Lake



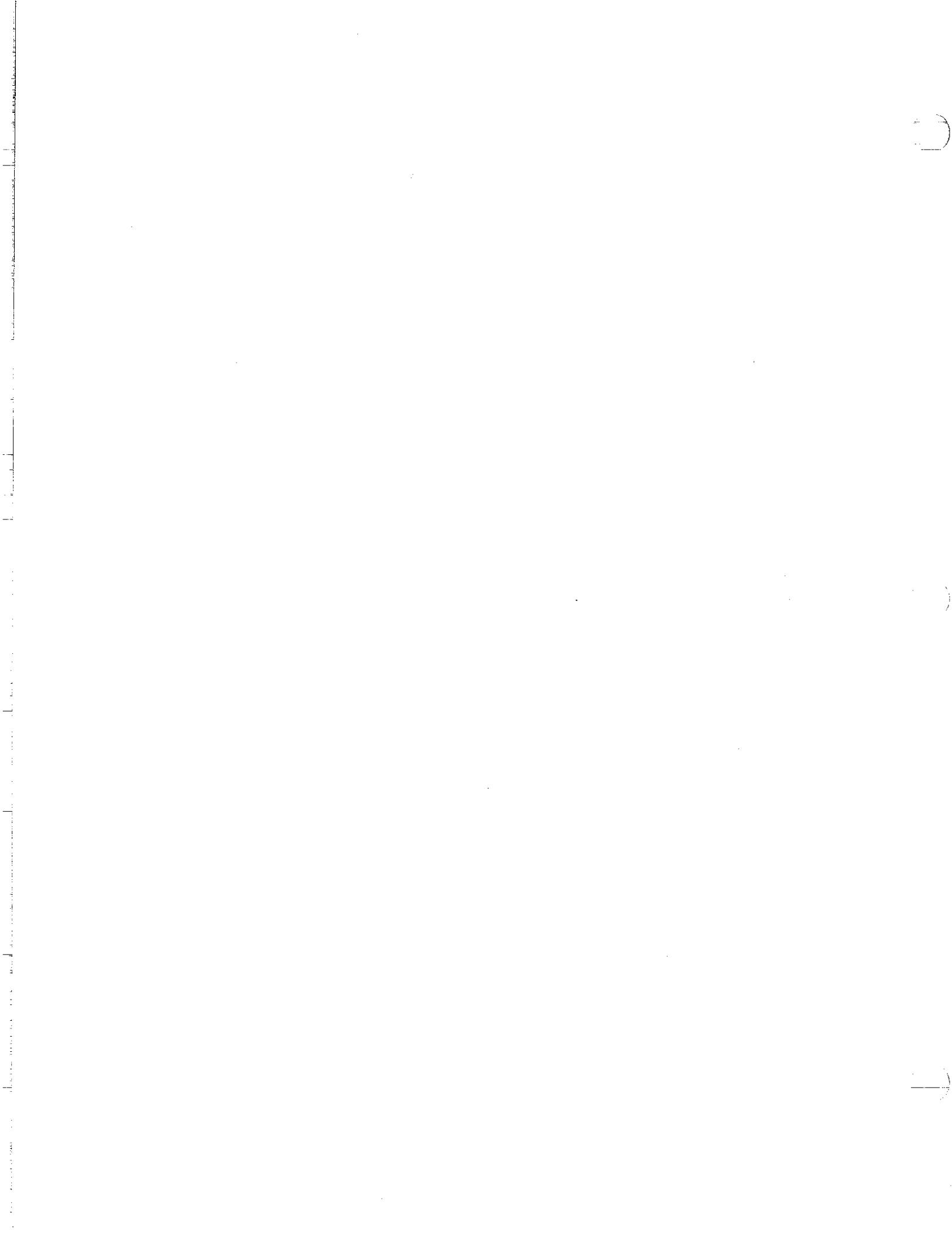
MONTANA
MRCC



Lewistown Dams Inset Map

East Fork Lake, Pike Lake, Hanson Lake, Big Casino Lake





Hanson Dam Inundation Photos

N



Photo 1 of 14

* Inundation lines are estimates.
Evacuations should be made well
beyond this zone.

Approximate Scale: Photo = 1 1/2 mile



Hanson Dam Inundation Photos



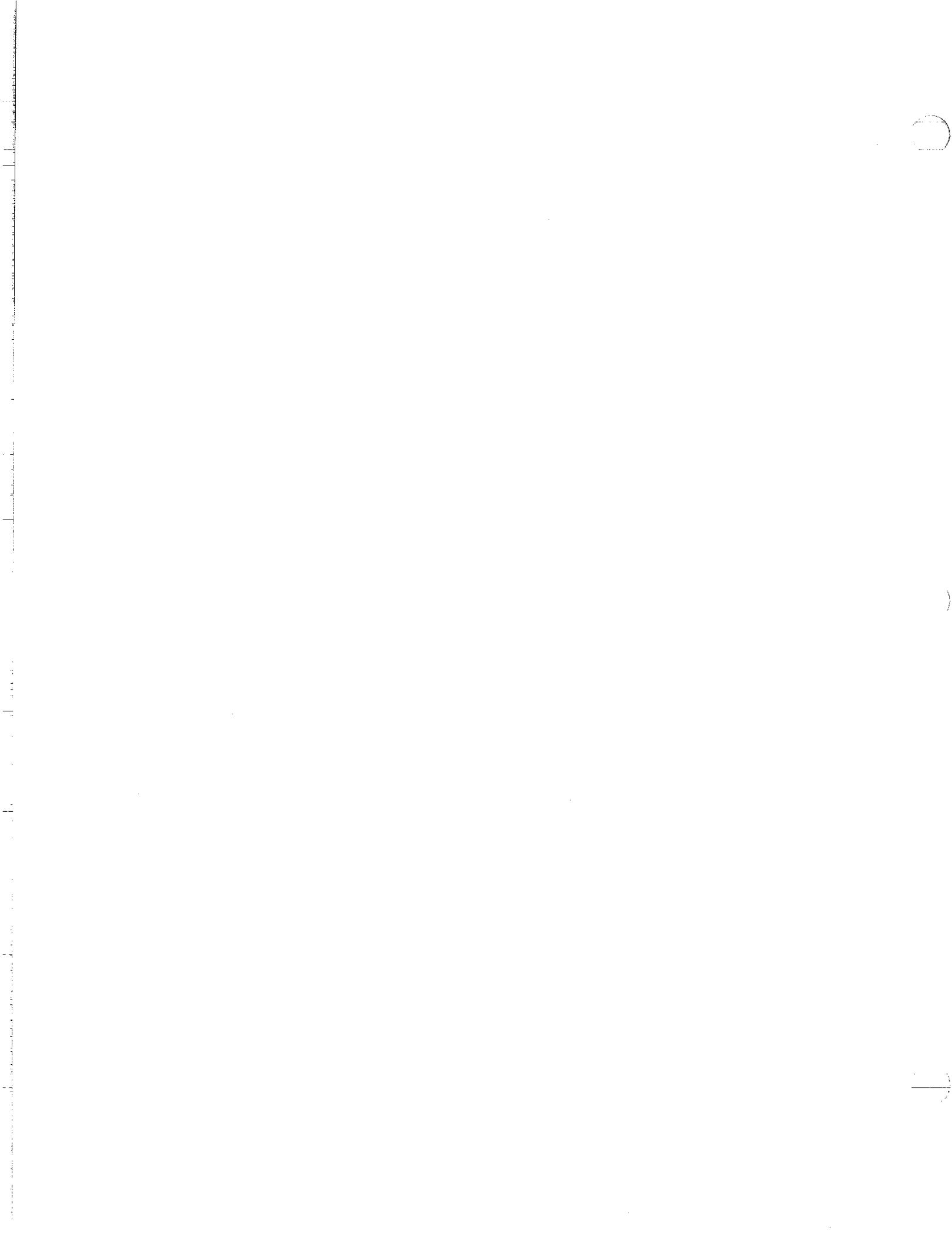
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Photo 2 of 14

* Inundation lines are estimates.
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Approximate Scale: Photo = 1 1/2 mile



Hanson Dam Inundation Photos

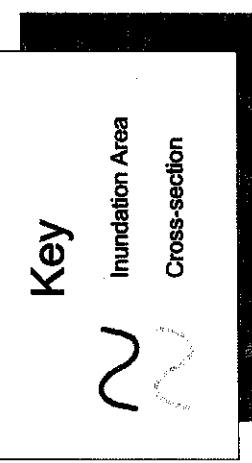
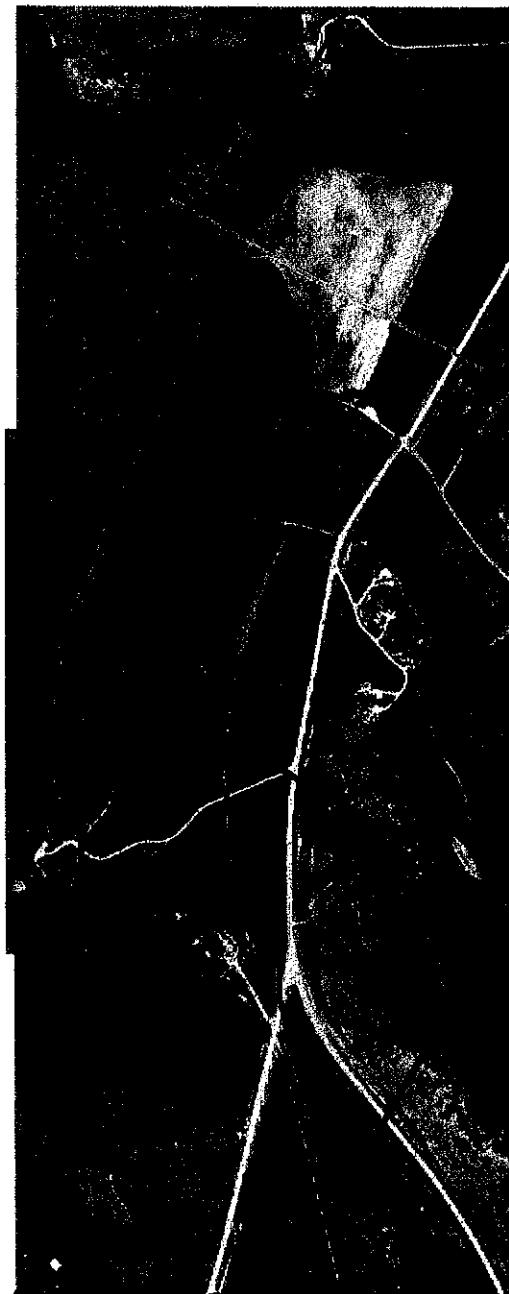
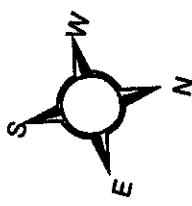
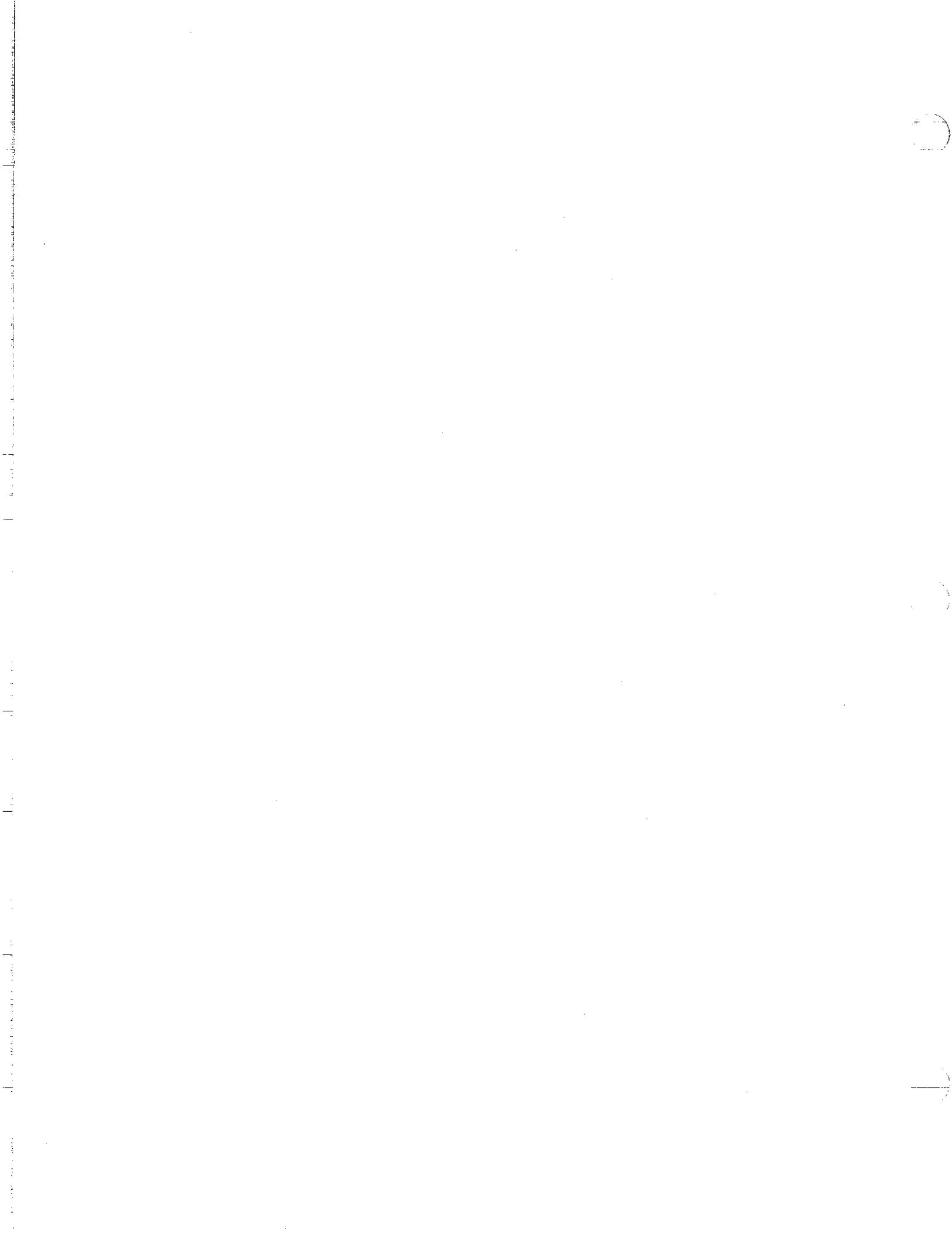


Photo 3 of 14

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Approximate Scale: Photo = 1 1/2 mile



Hanson Dam Inundation Photos



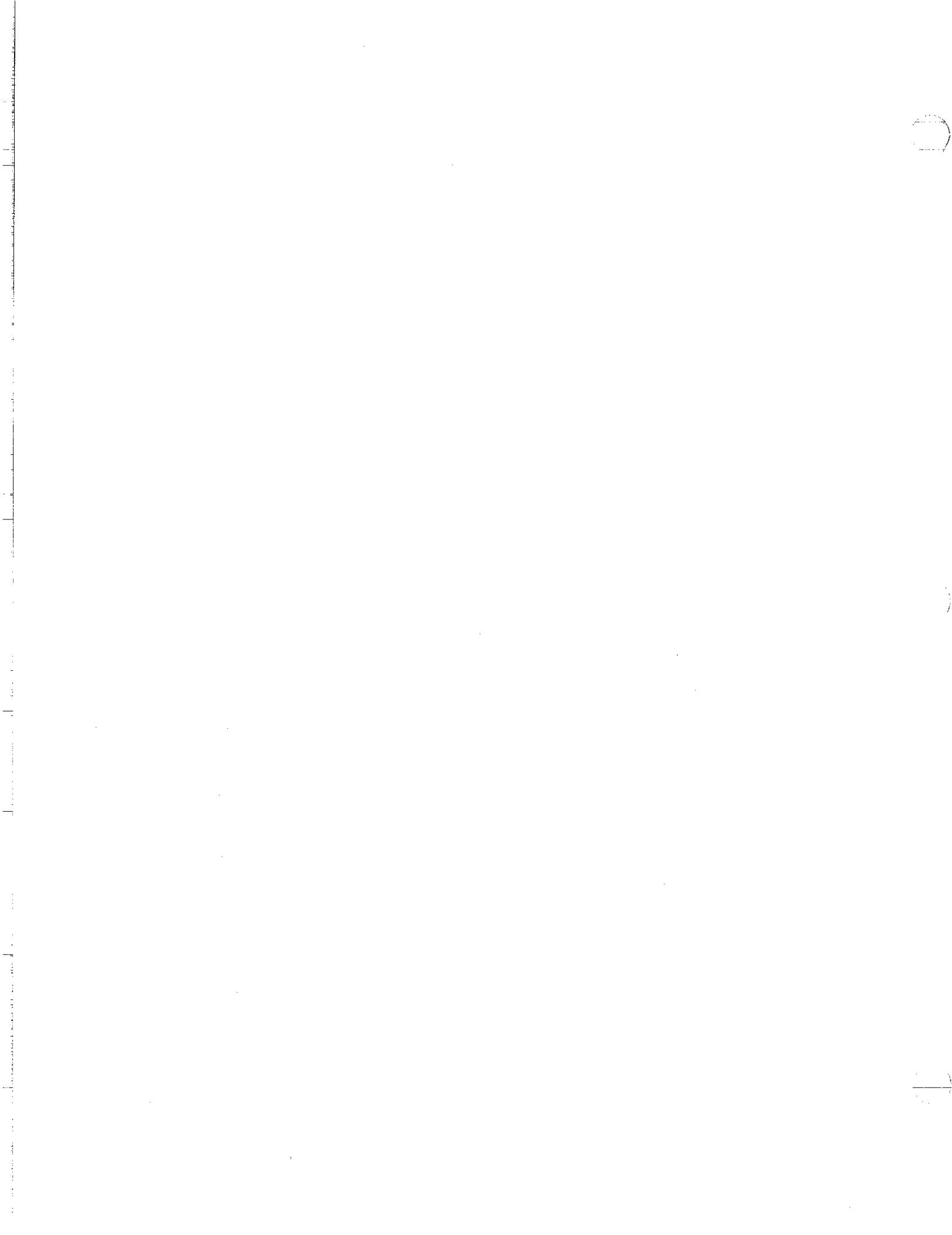
Photo 4 of 14

* Inundation lines are estimates.
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beyond this zone.

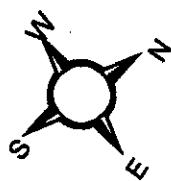
Key

- Inundation Area
- Cross-section

Approximate Scale: Photo = 2 miles



Hanson Dam Inundation Photos

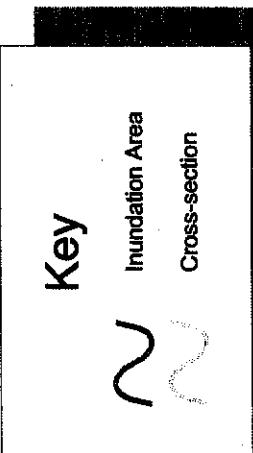


Time to peak height: 2 hr. 54 min.
Maximum depth: 20.3 ft.



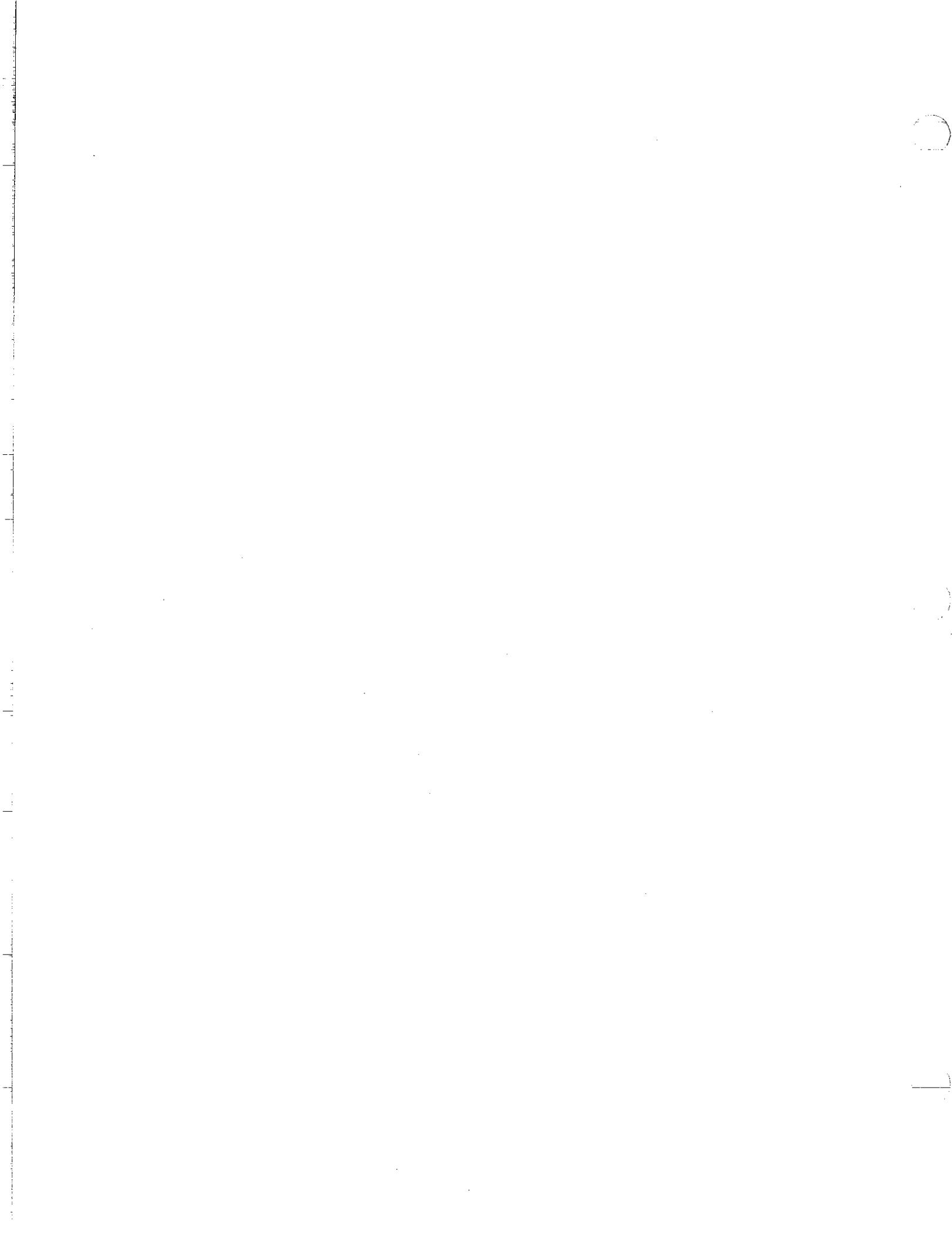
Time to Peak: 2 hrs. 42 mins.
Max. Depth: 14.4 ft.

Photo 5 of 14

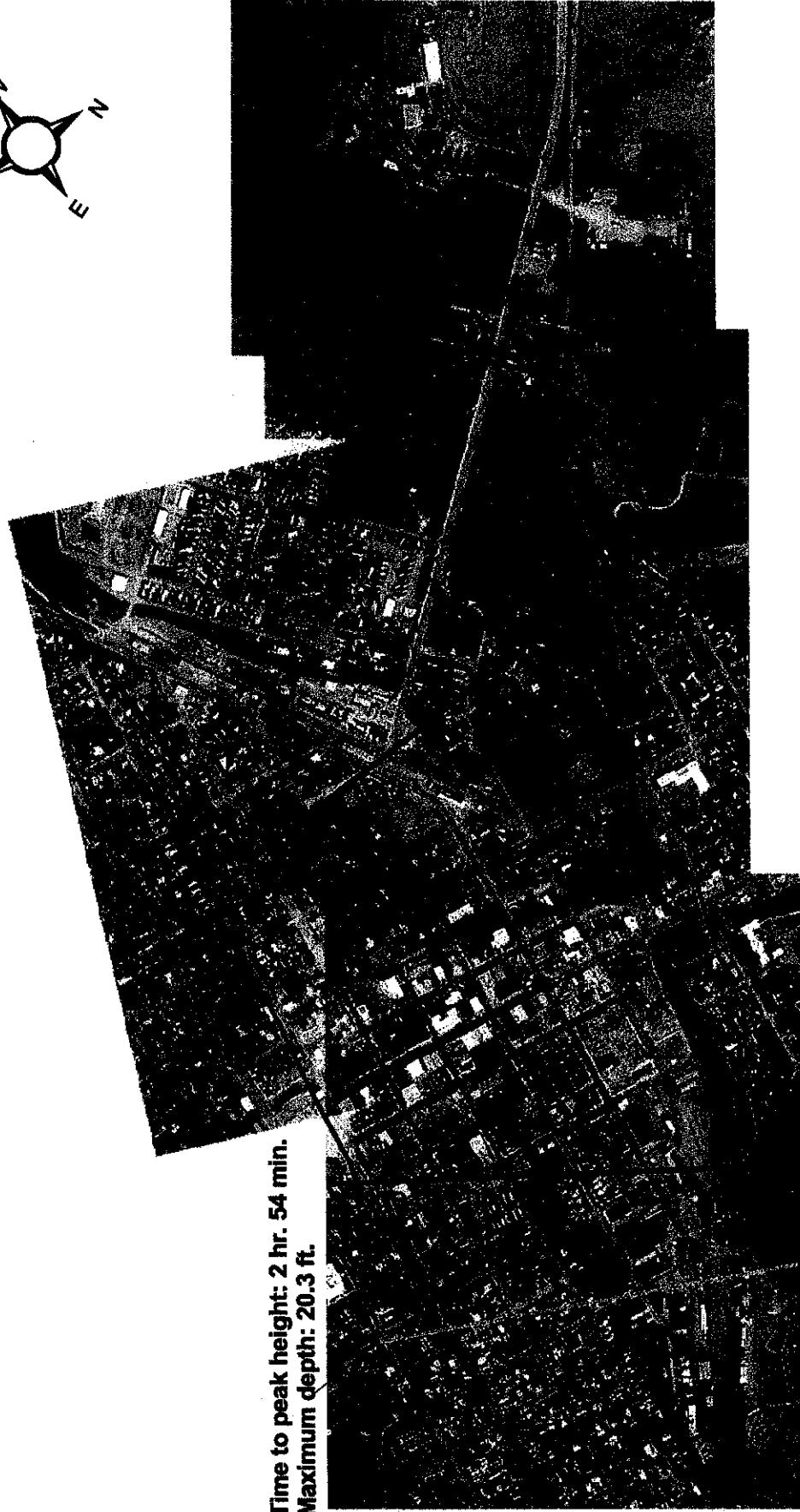


Approximate Scale: Photo = 1 1/2 mile

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Hanson Dam Inundation Photos



Time to peak height: 2 hr. 54 min.
Maximum depth: 20.3 ft.

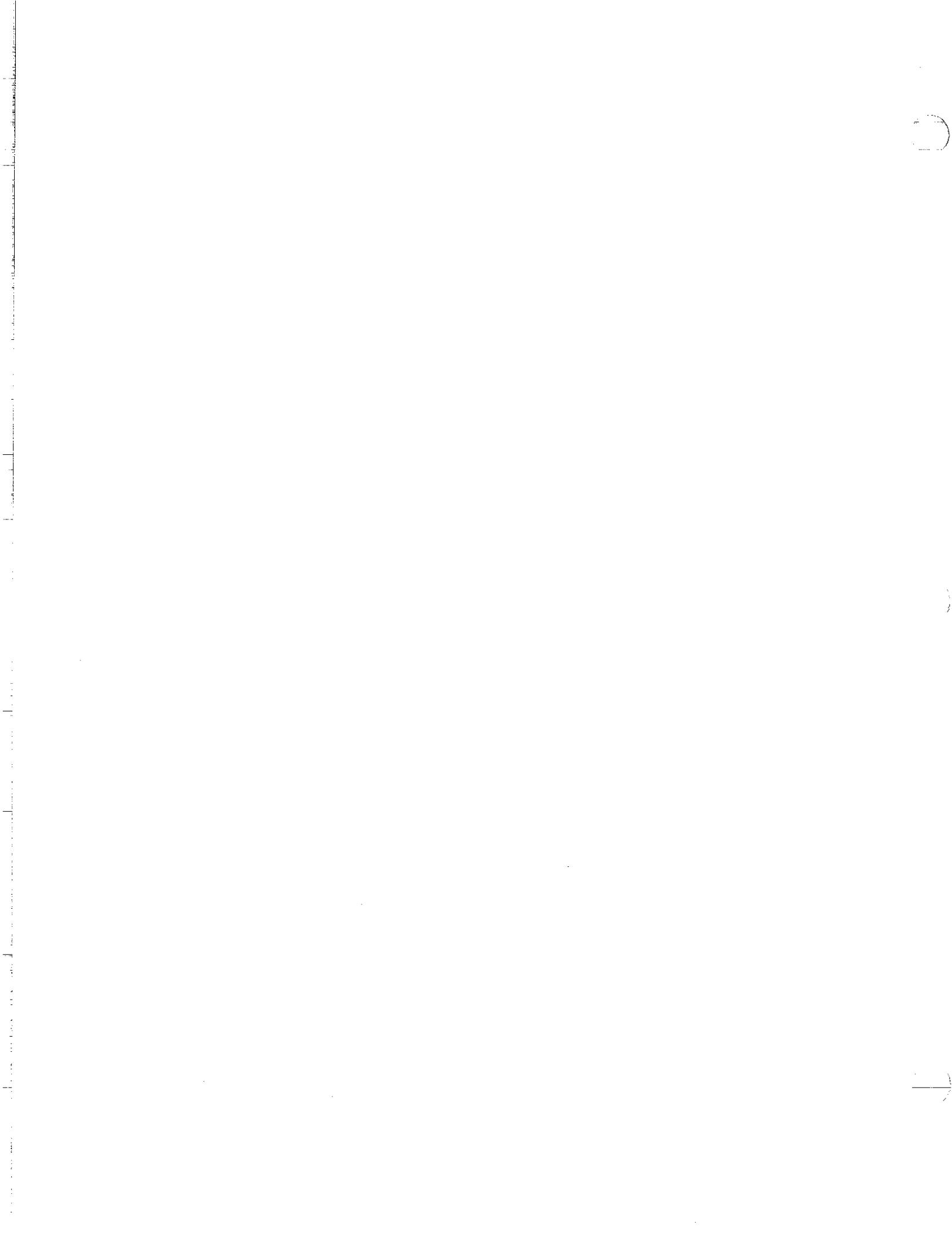
Key

Inundation Area
Cross-section

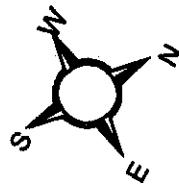
* Inundation lines are estimates.
Evacuations should be made well
beyond this zone.

Photo 6 of 14

Approximate Scale: Photo = 1 1/2 mile



Hanson Dam Inundation Photos



Time to peak height: 3 hr. 12 min.
Maximum depth: 20.2 ft.



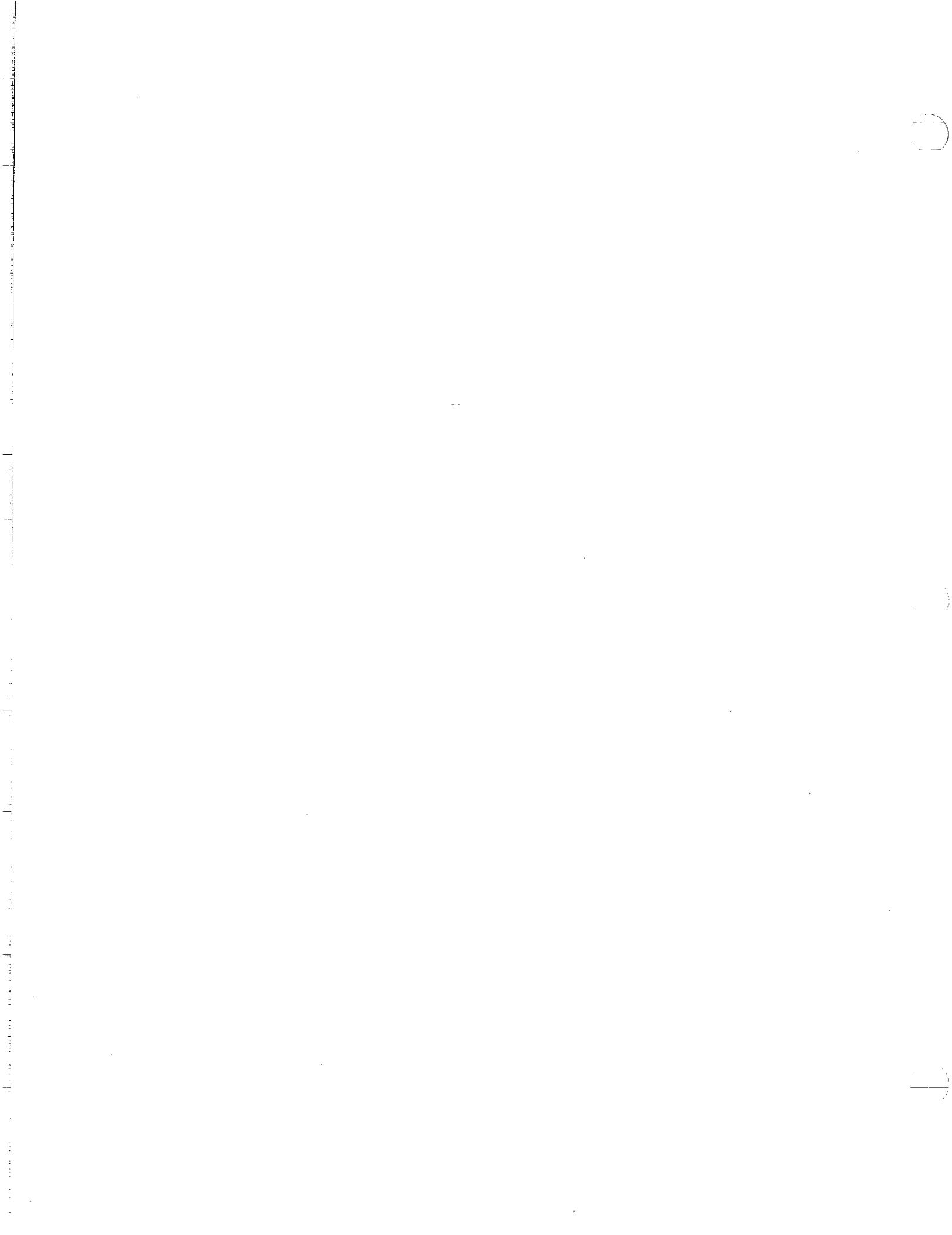
Photo 7 of 14

* Inundation lines are estimates.
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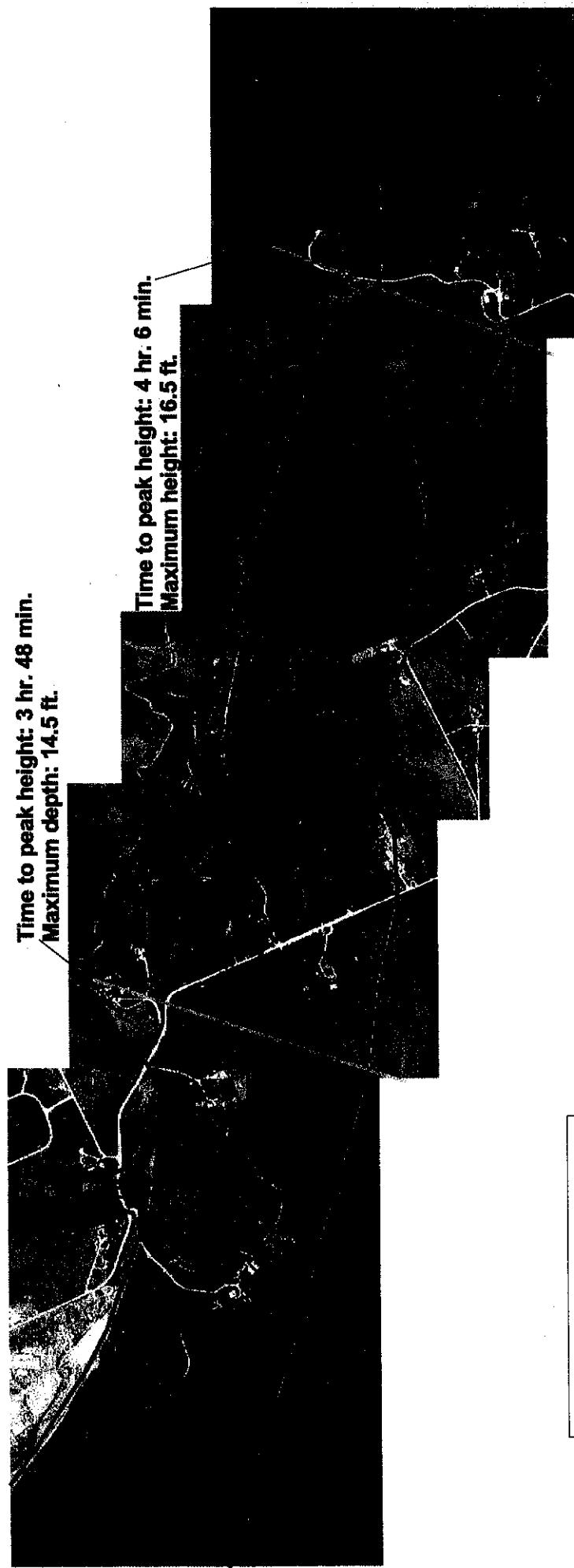
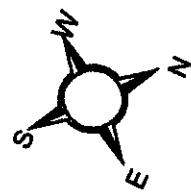
Key

 Inundation Area
 Cross-section

Approximate Scale: Photo = 1 mile



Hanson Dam Inundation Photos

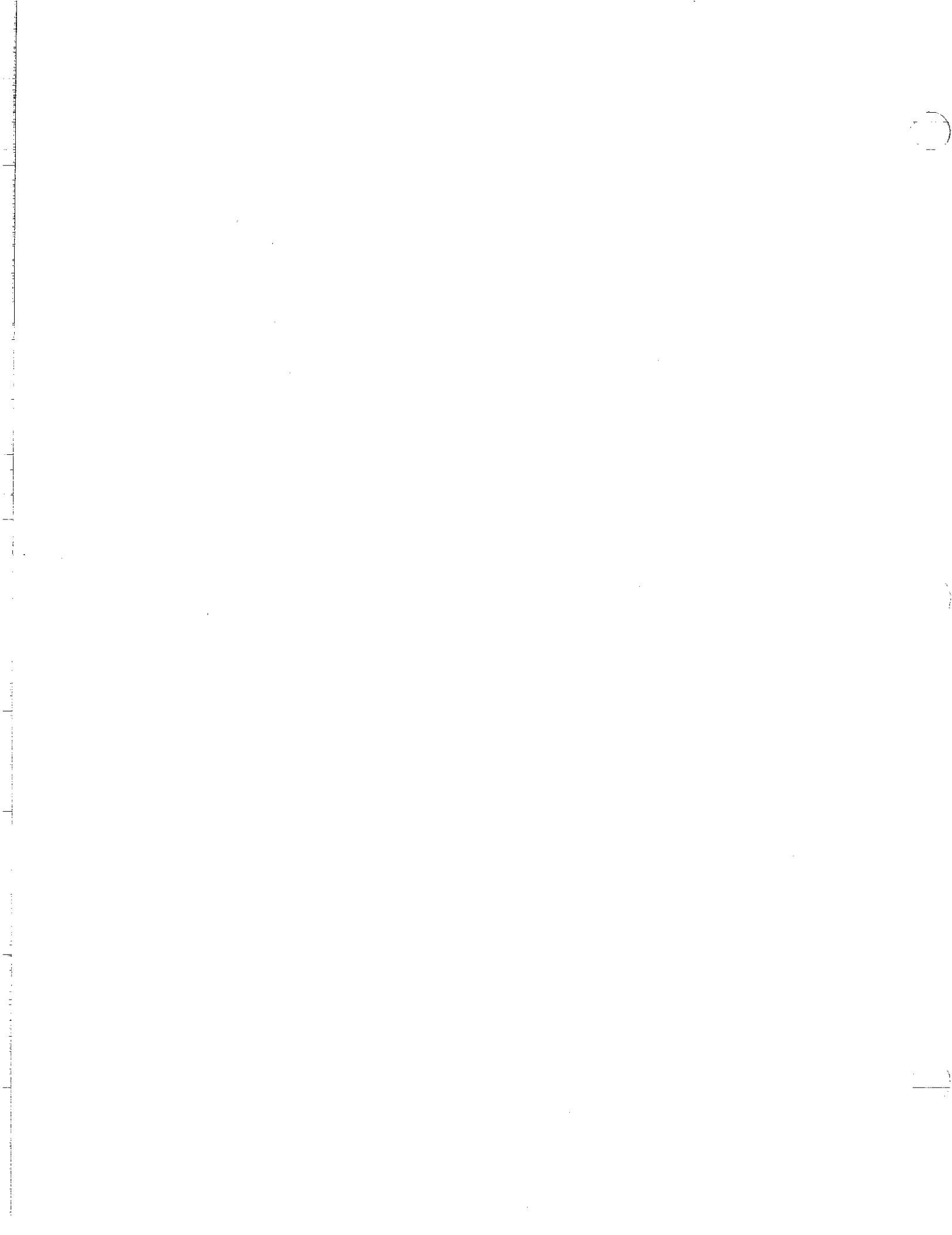


* Inundation lines are estimates.
Evacuations should be made well beyond this zone.

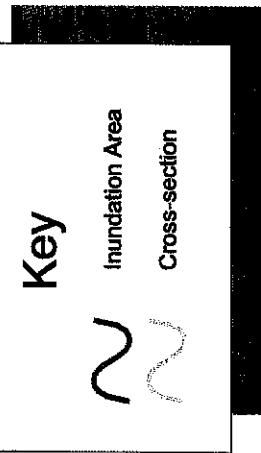
Photo 8 of 14



Approximate Scale: Photo = 2 1/2 mile



Hanson Dam Inundation Photos



Approximate Scale: Photo = 1 1/2 mile

Photo 9 of 14

* Inundation lines are estimates.
Evacuations should be made well
beyond this zone.



Hanson Dam Inundation Photos

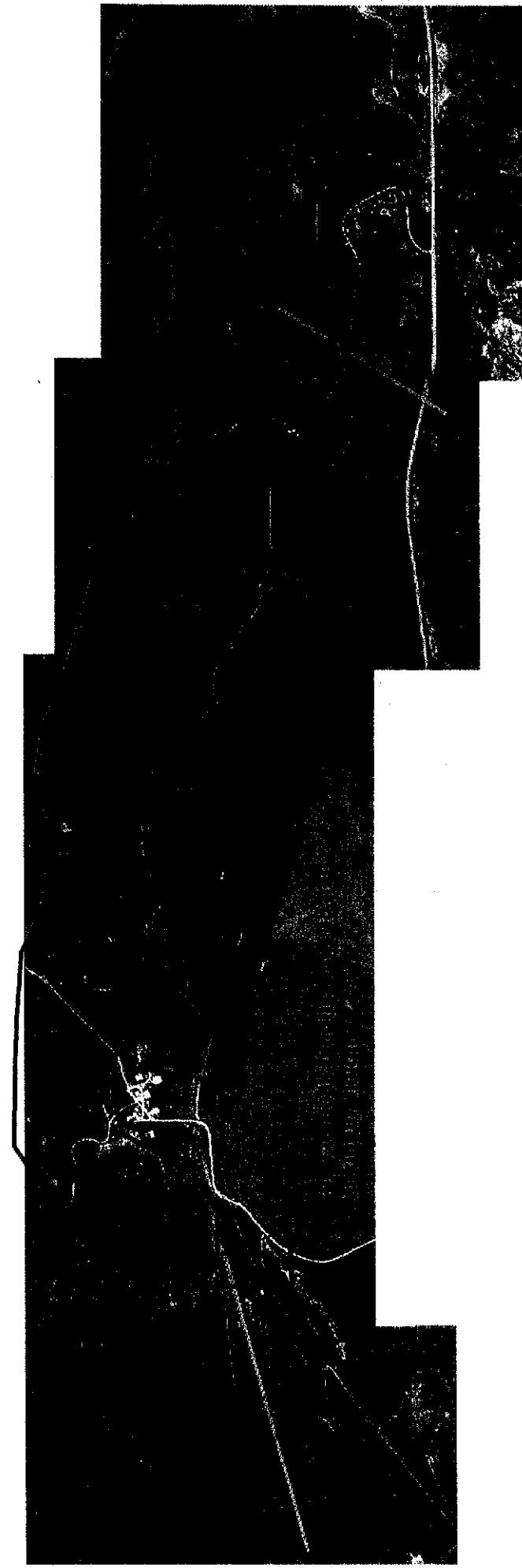
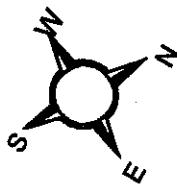
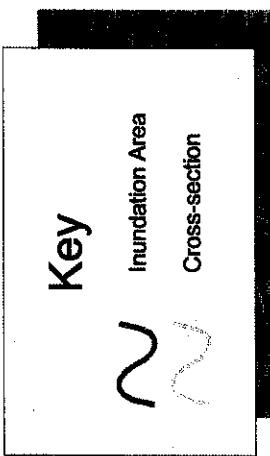


Photo 10 of 14

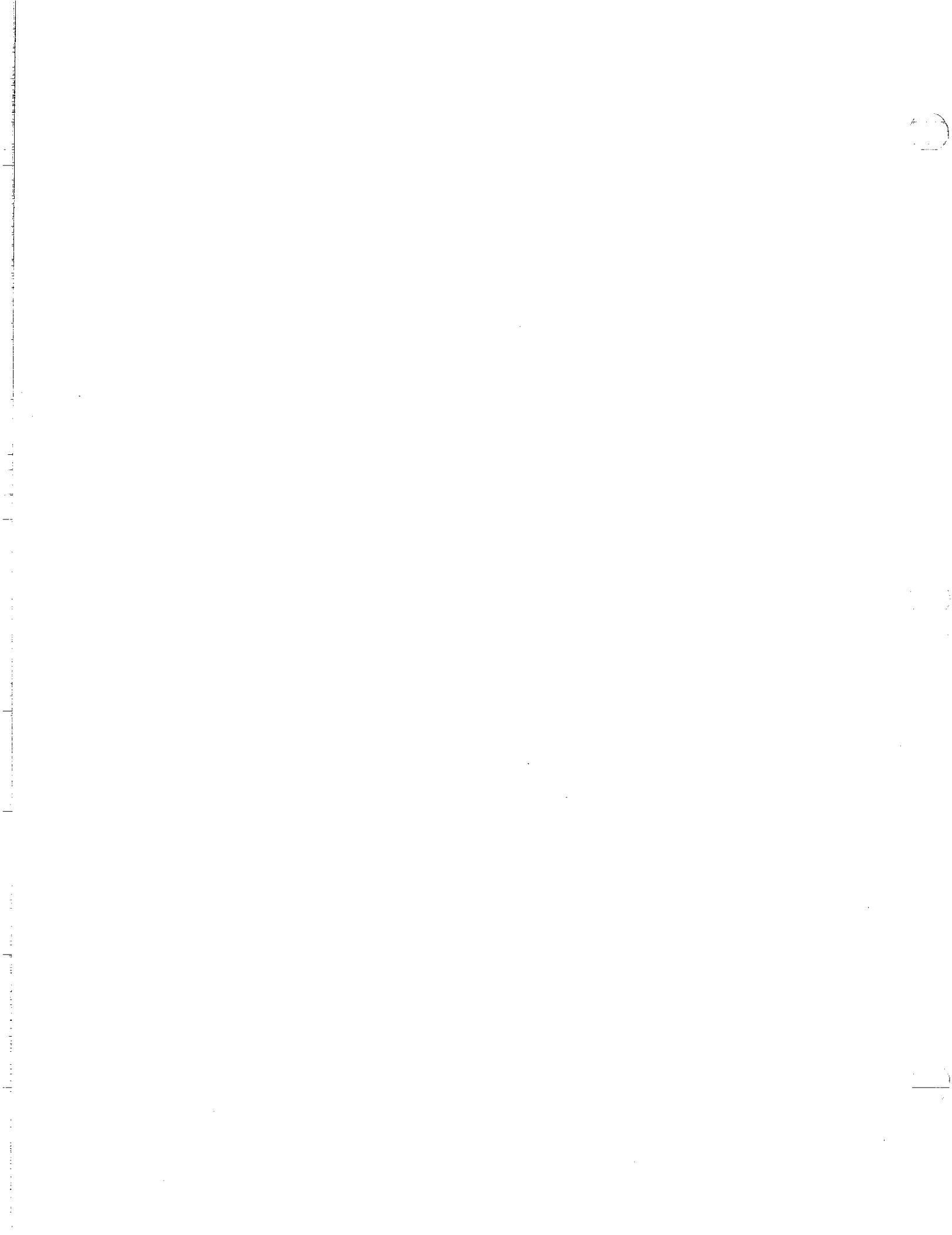


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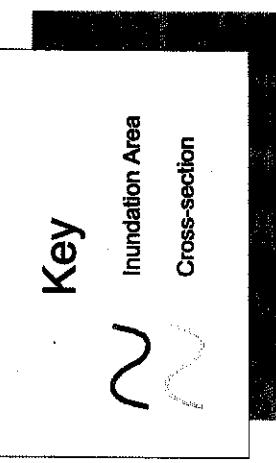
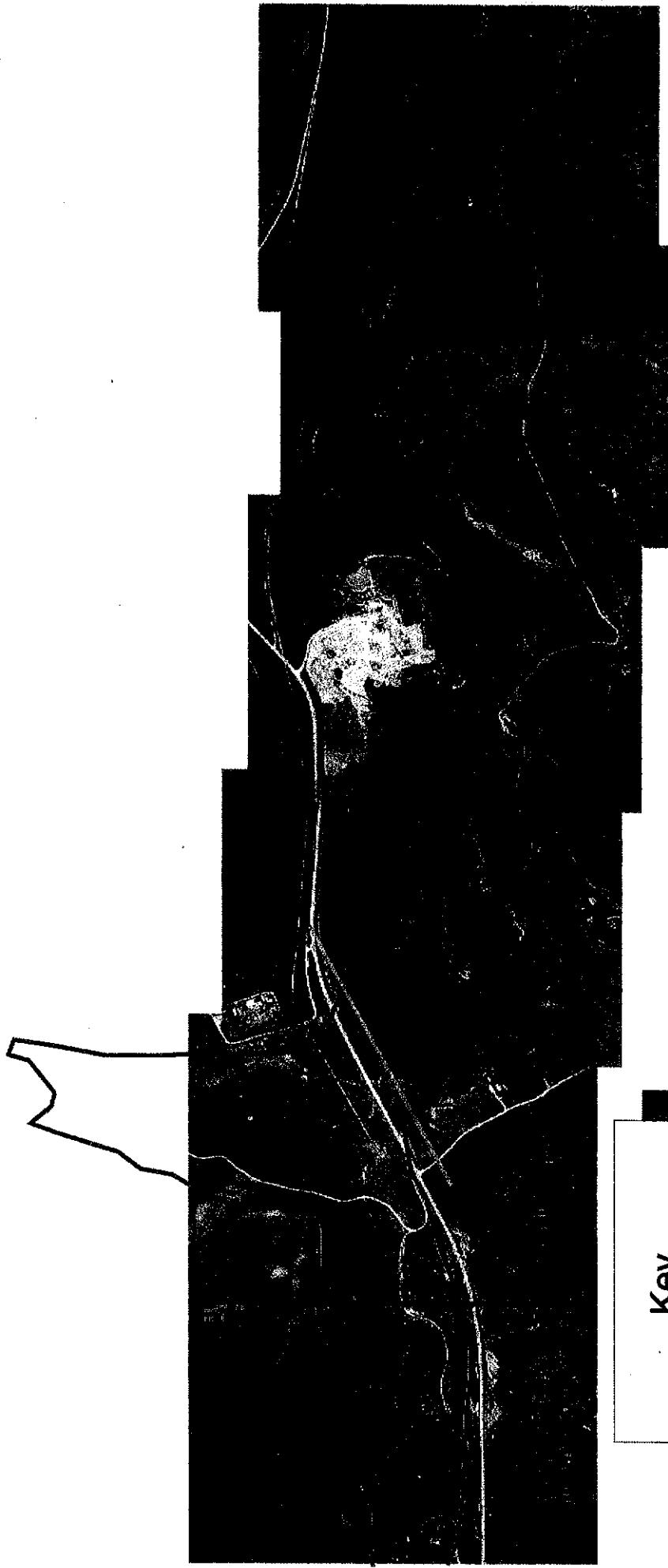
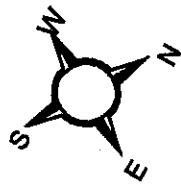
Inundation Area
Cross-section

Approximate Scale: Photo = 1 1/2 mile

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Evacuations should be made well
beyond this zone.



Hanson Dam Inundation Photos



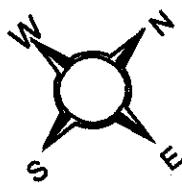
Approximate Scale: Photo = 2 1/2 mile

Photo 11 of 14

* Inundation lines are estimates.
Evacuations should be made well
beyond this zone.

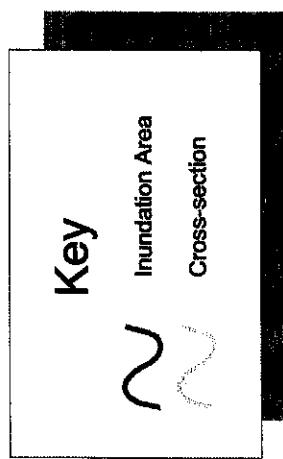


Hanson Dam Inundation Photos



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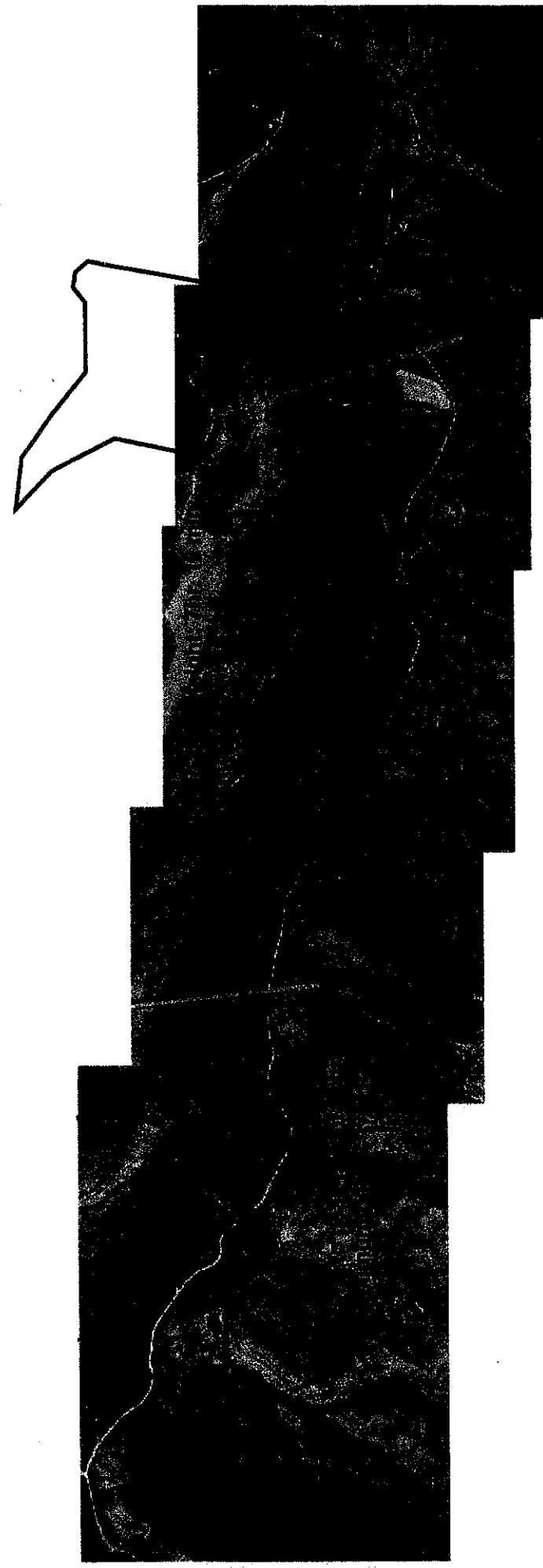
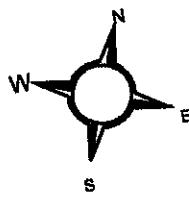
Photo 12 of 14



Approximate Scale: Photo = 2 miles

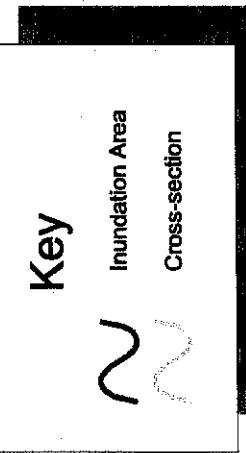


Hanson Dam Inundation Photos

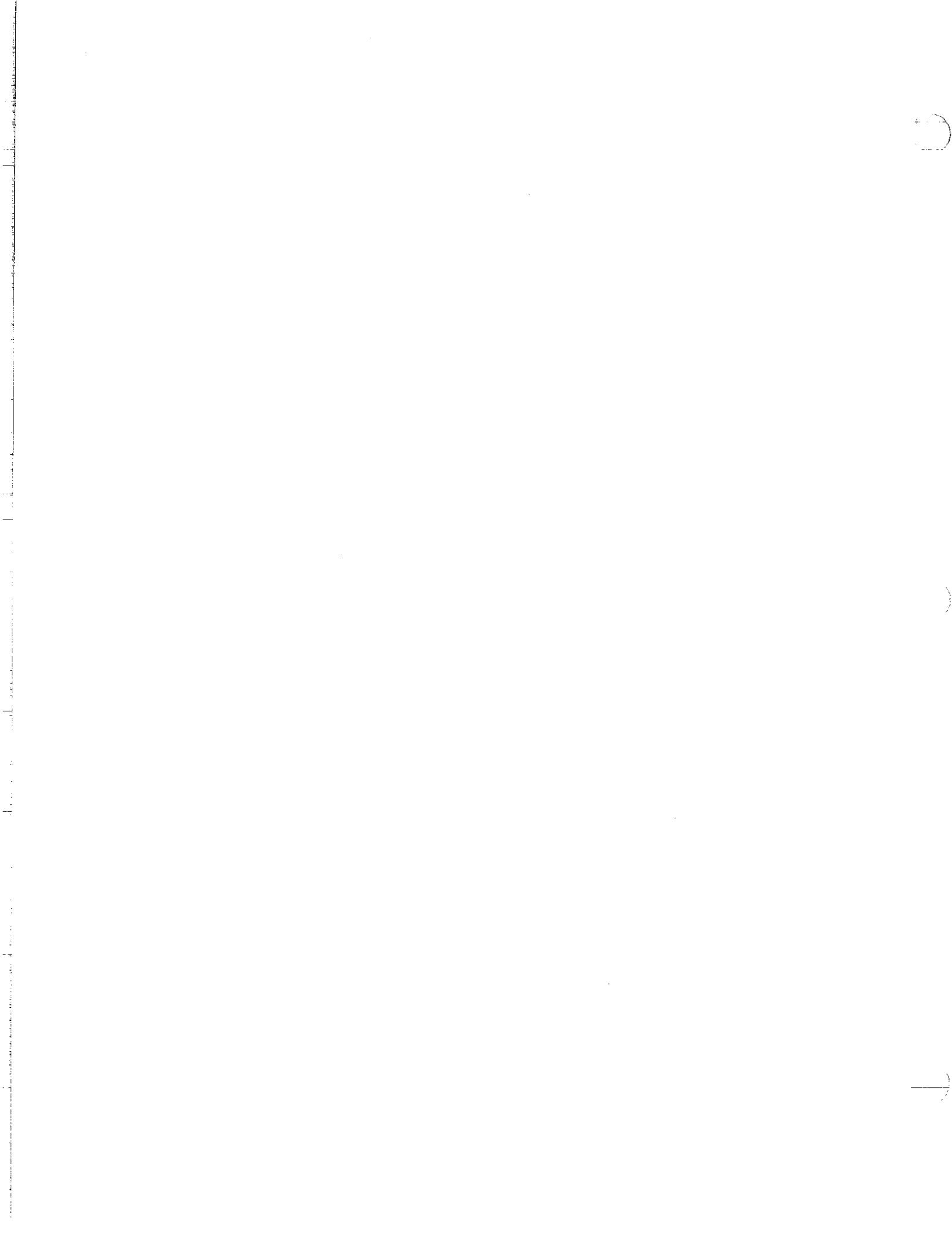


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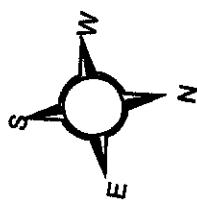
Photo 13 of 14



Approximate Scale: Photo = 2 1/2 mile

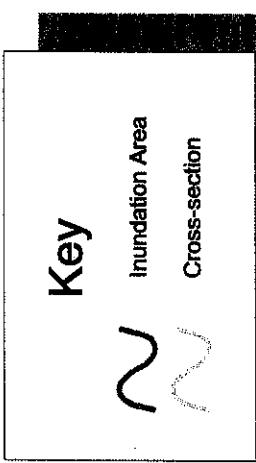


Hanson Dam Inundation Photos



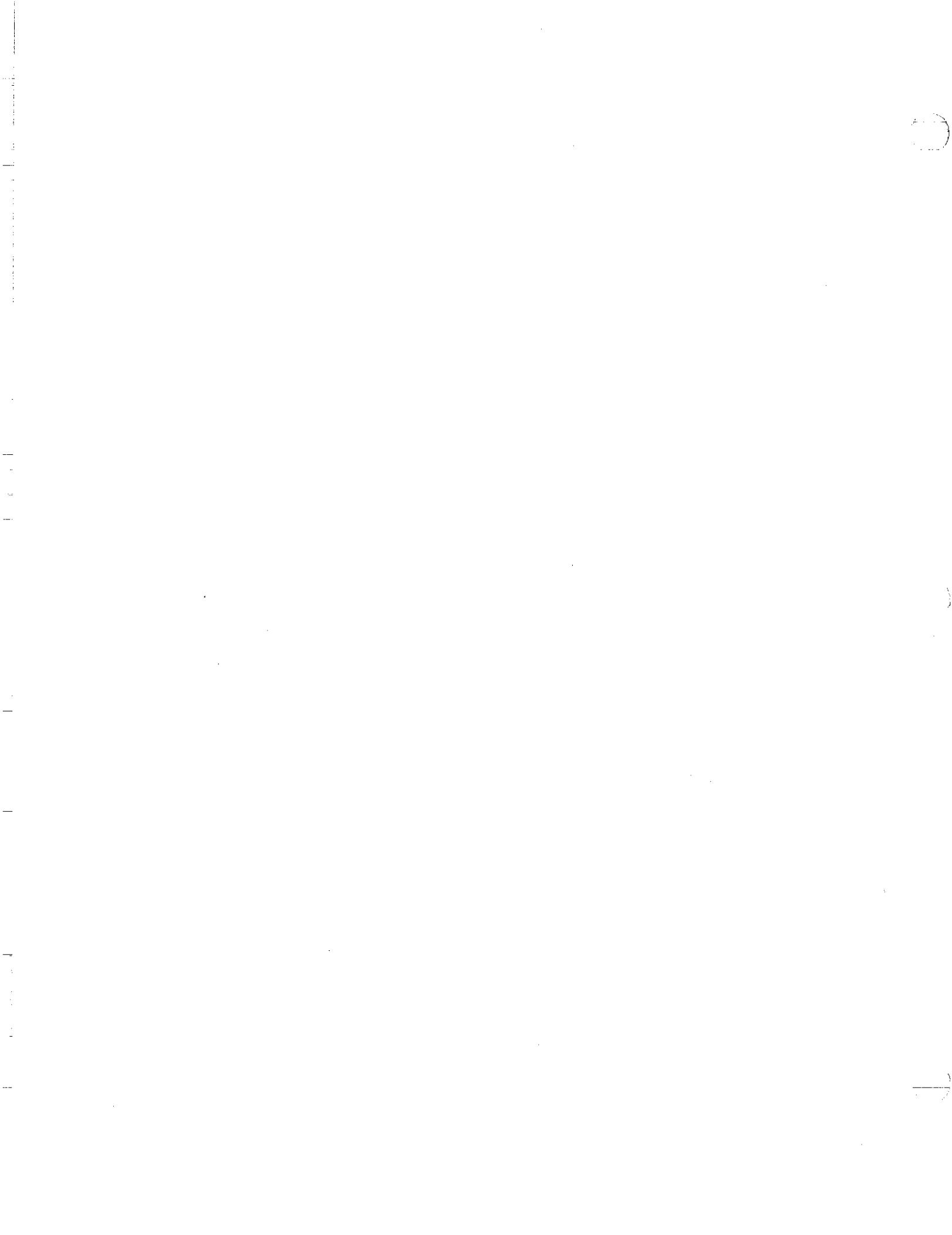
Continued on Hanson Dam Map 1

Photo 14 of 14



Approximate Scale: Photo = 1 1/2 mile

* Inundation lines are estimates.
Evacuations should be made well beyond this zone.



Hanson Dam

Inundation Area

Cross-section

Map 1 of 4

N

Inundation Areas are merely an estimate.
Actual flood area may vary with conditions.
Be sure to evacuate beyond suspected flood area.

Time to Peak: 10 hrs. 6 mins.
Max. Depth: 23.2 ft.

Road Crossing
at Highway 81

Time to Peak: 9 hrs. 54 mins.
Max. Depth: 10.2 ft.

MONTANA
DMRC

0.4 0 0.4 0.8 Miles

Edge of Phone Coverage



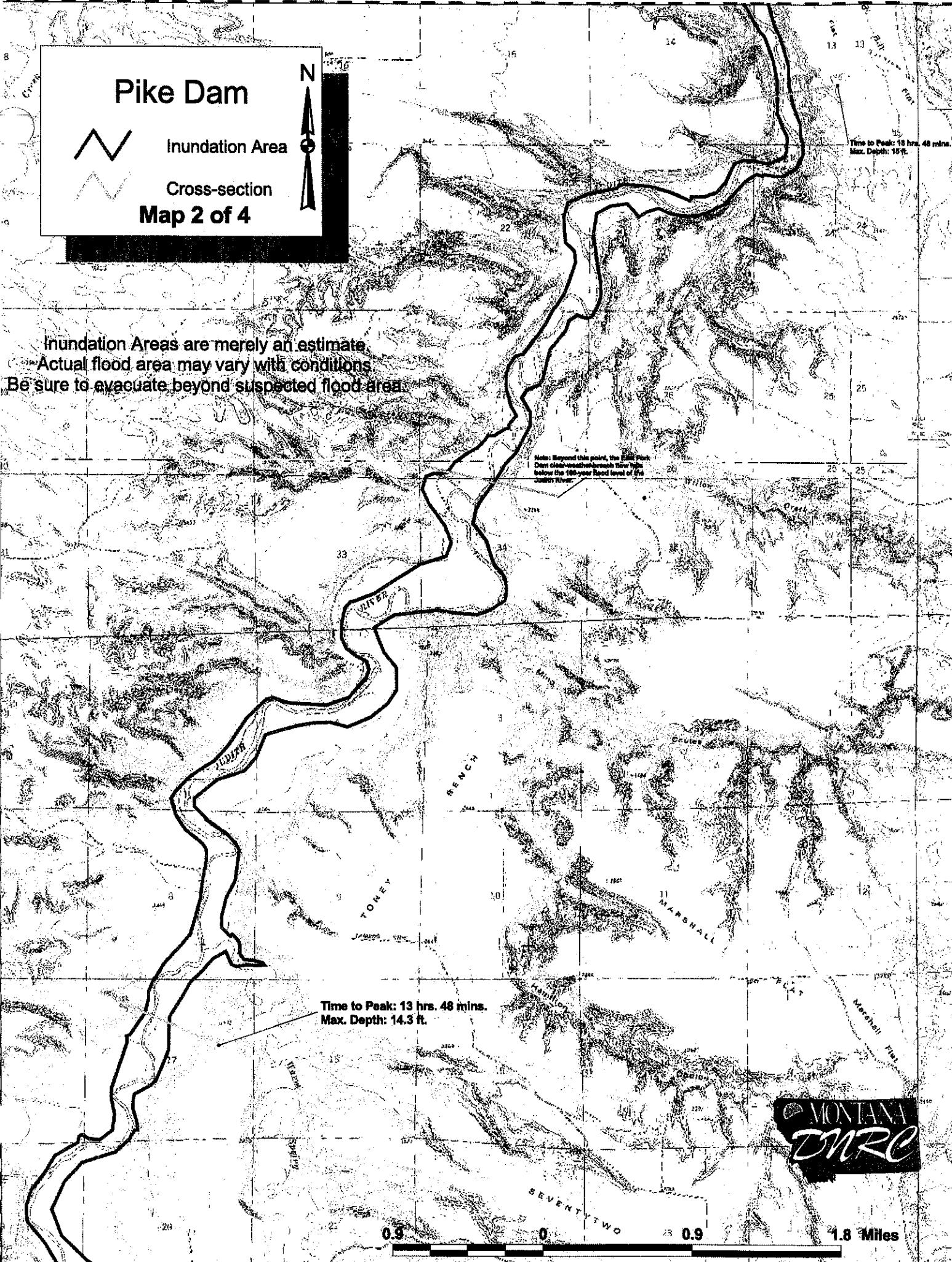
Pike Dam

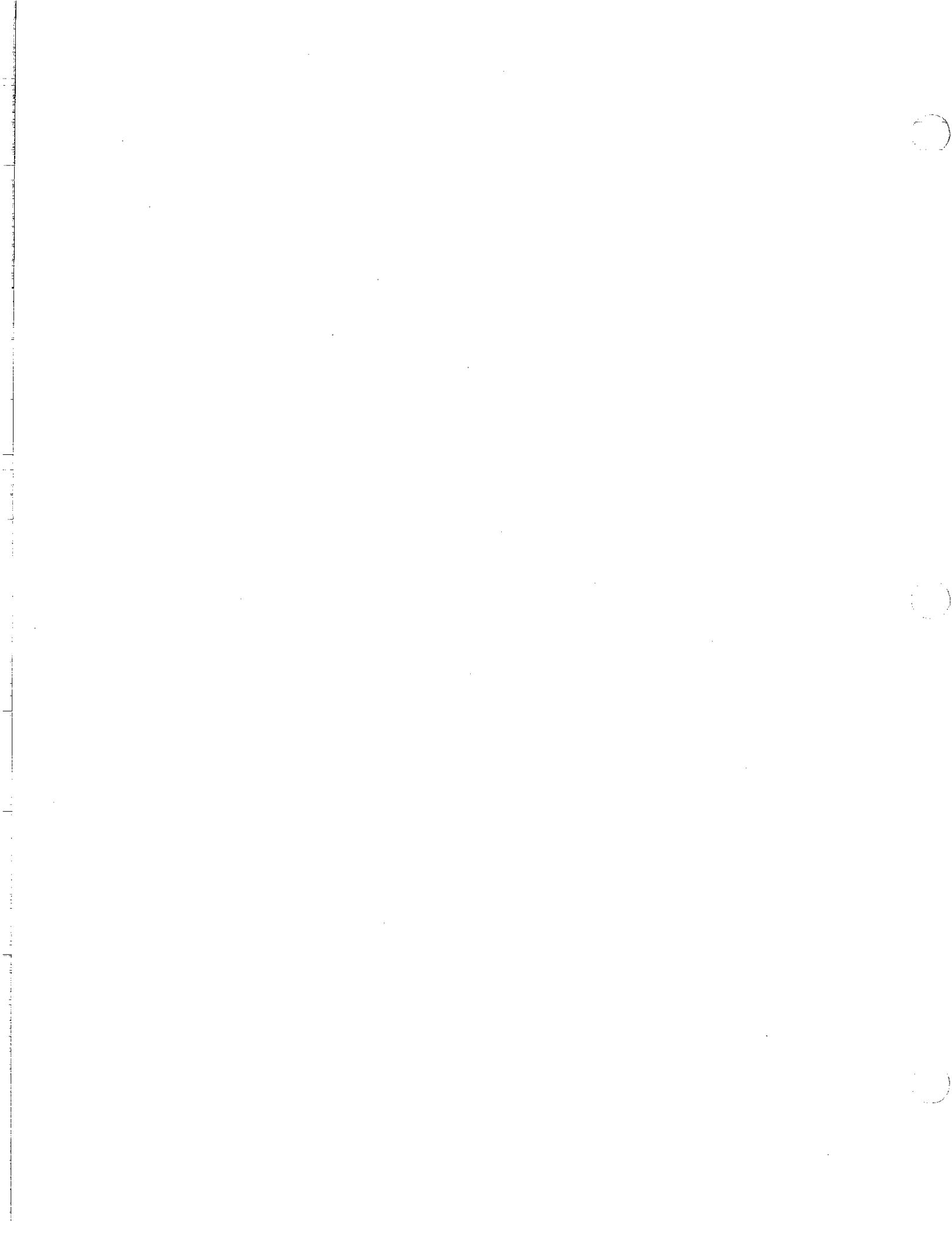


Inundation Area

Cross-section
Map 2 of 4

N





Hanson Dam



Inundation Area



Cross-section

Map 3 of 4

N

Inundation Areas are merely an estimate.
Actual flood area may vary with conditions.
Be sure to evacuate beyond suspected flood area.

Time to Peak: 20 hrs. 54 mins.
Max. Depth: 17.8 ft.

MONTANA
DNR

0.9

0

0.9

1.8 Miles



Hanson Dam



Inundation Area



Cross-section

Map 4 of 4

N

Note: Beyond this point, the East Fork
Bitterroot River breached Boy Hill,
below the 100-year flood level of the
Bitterroot River.

Time to Peak: 34 hrs.
Max Depth: 9.7 ft.

Inundation Areas are merely an estimate.
Actual flood area may vary with conditions.
Be sure to evacuate beyond suspected flood area.

Time to Peak: 26 hrs. 18 mins.
Max. Depth: 11.7 ft.

Bitterroot
Springs
Branch

Anderson Bridge

Time to Peak: 22 hrs. 18 mins.
Max. Depth: 11.5 ft.

BENCH

SPRINGS

R

Montana
DNRC

0.9

0

0.0

1.3 Miles



APPENDIX C

Telephone Directory

Appendix C TELEPHONE DIRECTORY

A. Priority One

1. SHERIFF Fergus County 535-3415 or 911
2. DISASTER AND EMERGENCY SERVICES Fergus County
Cheri Kilby Office: 535-8118
..... Cell: 320-1112
State Disaster and Emergency Services (Helena)
..... 841-3911
3. EVACUEES (in upstream-to-downstream sequence)

Spring Creek Notification List

Cliff Forman	538-3587	1787 Fish Hatchery Rd
Kory Nielsen	538-7275	1586 Fish Hatchery Rd
Lyle Gorman	538-9562	153 Laughing Water Ln
Bruce Bowman	538-7570	123 Laughing Water Ln
Miriam Huff	538-3143	1380 Fish Hatchery Rd
Dan Rice	538-8500	1022 Fish Hatchery Rd
Brandon Cowen	538-8751	172 Cabin Creek Rd
Wilber Kinsey	538-2658	124 Dill Ln
Robert Dill	538-2206	120 Dill Ln
Wendell Wade	538-9618	40 Dakota Ln
Kirk Fleming	538-8937	436 Fish Hatchery Rd
Alex Smith	538-3318	384 Fish Hatchery Rd
George Hamilton	538-9882	73 Hamilton Ln
Herbert Jones	538-8336	3383 Upper Spring Creek Rd
John Bourke	538-8685	3210 Upper Spring Creek Rd
Don Vanek	538-7887	114 Swan Lane
James Sweeney	538-5338	216 Swan Lane
Harry Felton	538-8422	51 Fox Farm Rd
Mitch Maycox	538-8536	61 Fox Farm Rd
Don Knox	538-8460	65 Fox Farm Rd
Don Knechtges	538-9515	206 Fox Farm Rd
Timothy Cabilish	538-8438	264 Fox Farm Rd
Margaret Boyer	538-8697	322 Fox Farm Rd
Delbert Norton	538-3564	81 Chokecherry Ln
David McConnell	538-7307	122 Chokecherry Lane
William Cecil	538-4961	114 Chokecherry Lane
Donald Gregory	538-5747	2536 Upper Spring Creek Rd

Kenneth Wise	538-8629	62 Wise Lane
Ruth Wells		46 Wise Lane
Ted Manuel		17 Timberline Rd
Dale Huffine	535-3125	82 Hillview Ln
Bill Miller	538-7270	118 Hillview Ln
Doug Sereday	538-9370	249 Timberline Rd
Rose Hine	535-9863	310 Timberline Rd
Mike Otto	535-6650	276 Timberline Rd
Margaret Benes	538-6920	365 Timberline Rd
Max Hinderager	538-7648	374 Timberline Rd
Frank Martin	538-8609	86 Timberline Rd
JD Moore	538-8131	98 Timberline Rd
Frank Williams	535-2049	173 Timberline Rd
Edwin Durbin	538-7151	301 Pine Ridge Rd
Gregory Ray	538-2733	2156 Upper Spring Creek Rd
Ted Dirkson	538-5661	83 Willow Ln
Bill Haugen	538-3371	98 Willow Ln
Marion Gardner	538-7259	74 Willow Ln
Terry Bragg	538-9411	50 Willow Ln
Frank & Betty Martin		26 Willow Ln
William Leininger	538-2408	2000 Upper Spring Creek Rd
Corrine Trapp	535-6907	131 Dairy Dr.
Don Brown	538-5962	75 Dairy Dr
William Youngbauer	538-2138	49 Dairy Dr
Leroy Thomsen		1108 Roundhouse Rd
Joe Thomas	538-8782	1511 7 th Ave S
Matt Combs		1510 7 th Ave S
Helen Aldrich	538-8565	826 Roundhouse Rd
Wade Kurns		780 Roundhouse Rd
Tim Harrell	538-9567	746 Roundhouse Rd
Vacant		740 Roundhouse Rd
Ed Schwartz	538-5725	619 Roundhouse Rd
Jack Boyce		61 Ash St
James Pearson	535-5352	68 Ash St
John Couch	535-2648	69 Ash St
Janice Weston	535-2456	1798 6 th Ave S
William Solf		71 Ash St
Mike's Transfer	538-5943	84 Ash St
Richard Jennings	538-9626	89 Ash St
Evelyn Deffinbaugh	538-9277	102 Duck Haven Ln
George Jernigan	538-4848	104 Duck Haven Ln
Travis Jaynes	538-8368	103 Duck Haven Ln
David Nilson		105 Duck Haven Ln
George Jimmerson	538-6065	107 Duck Haven Ln
Leona Tripp	538-5076	109 Duck Haven Ln

Torger Oaas	538-8862	1503 7 th Ave S
Charlene Reiche	538-5196	92 Cottontail Ln
William Krings	538-3802	108 Cottontail Ln
Doug Krings	538-3335	124 Cottontail Ln
Ryan Zerr		105 Rainbow Ln
Russ Dunnington	535-9326	103 Rainbow Ln
Fred Tullis	538-3395	101 Rainbow Ln
Monte Boettger	535-3228	121 Mill Stream Rd
Clyde Merwin	538-5206	101 Mill Stream Rd

B. Priority Two

4. LOCAL ENGINEER

NTL Engineering, Gary Quinn.....	761-6555	disconnected
Morrison Maierle, Mark Franchi.....	442-3050	

5. MONTANA DEPT. OF NATURAL RESOURCES AND CONSERVATION

Dam Safety Program Engineers: Office: 444-6613

Michele Lemieux, (Soils and Embankments).....	Home: 225-9062
.....	Office: 444-6613
.....	Cell: 459-3572

Water Operations Bureau Office: 444-6816

Mr. Laurence Siroky, Bureau Chief.....	Home: 442-2806
.....	Cell: 431-7475

6. NATIONAL WEATHER SERVICE

Missoula 329-4718

Great Falls 453-2081

Billings 652-2314

7. BUREAU OF LAND MANAGEMENT..... 657-6561

8. U.S. FOREST SERVICE..... 329-31767

9. CITY OF LEWISTOWN

Leo Kapp Office: 535-1770
..... Cell: 366-4430

APPENDIX D
Dam Incident Report Form

DAM INCIDENT REPORT FORM

DATE: **TIME:**

NAME OF DAM:

STREAM NAME:

LOCATION:

COUNTY:

OBSERVER:

OBSERVER TELEPHONE:

NATURE OF PROBLEM:

LOCATION OF PROBLEM AREA (Looking Downstream):

EXTENT OF PROBLEM AREA:

FLOW QUANTITY AND COLOR:

WATER LEVEL IN RESERVOIR:

IS SITUATION WORSENING?

EMERGENCY STATUS:

CURRENT WEATHER CONDITIONS:

ADDITIONAL COMMENTS:

APPENDIX E

Plan Distribution List

APPENDIX E

Emergency Action Plan Distribution List

<u>PLAN HOLDER</u>	<u>NUMBER OF COPIES</u>
Dam Owner, City of Lewistown.....	2
Fergus County Sheriff	1
Fergus County DES Coordinator.....	1
DNRC Dam Safety Program	1
DNRC Lewistown Regional Office.....	1

